

# Focus on CSIR

**Inundu** – Airborne Electronics Test, Evaluation and Training Pod



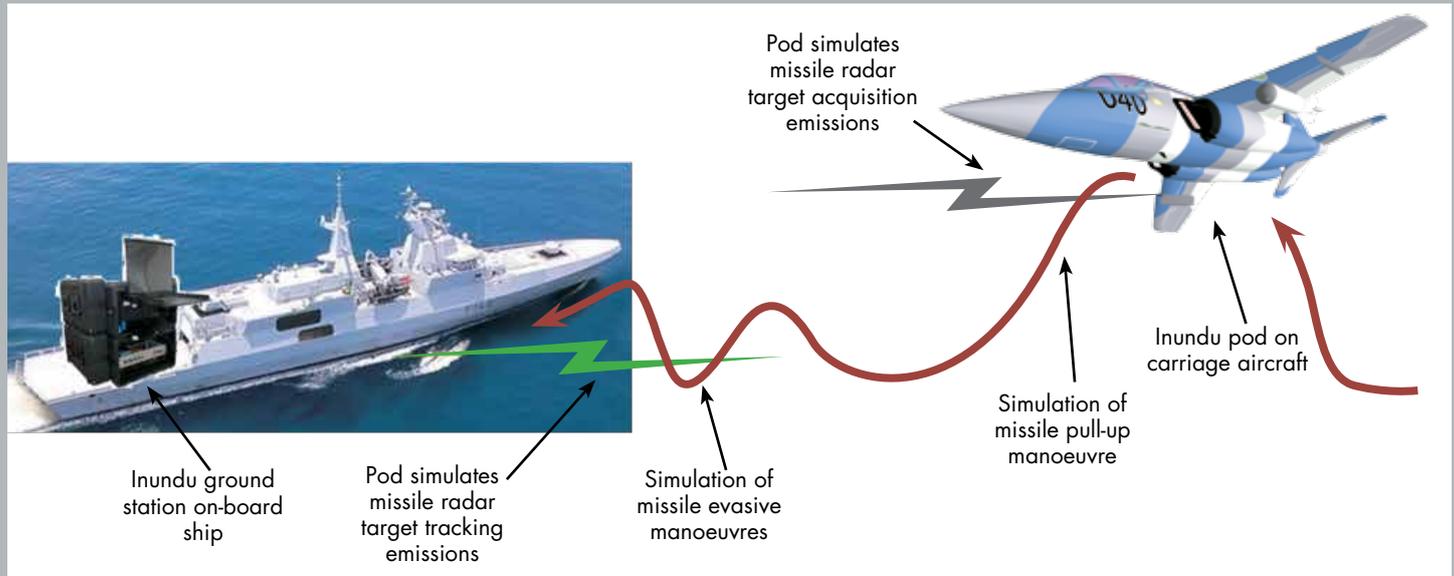
Inundu is a multi-purpose electronics pod for airborne Electronic Warfare (EW) and Radar test evaluation (T&E) and training applications. The modular payload can be re-configured for various research, development, test, evaluation and training scenarios.

## Features

### Inundu can be utilised for:

- Evaluation of the performance of EW and Radar systems, by for instance simulating anti-ship missiles
- Training EW and Radar operators against airborne threats
- Acceptance testing of new systems
- System Research and Development (R&D)- from data capturing to flight testing of e.g. testing of airborne SAR payload
- Operational support for doctrine development and optimisation





## Features

### Inundu is designed to:

- Simulate high fidelity advanced radar sensors and platform self-protection systems
- Be highly platform independent- aerodynamically similar to a pod cleared for several platforms and electronically independent from the platform
- Interface with ground control stations to ensure the operator or trainer can achieve optimal impact
- Have very high programmability: the modular, interchangeable payload easily reconfigures to suit different requirements

## Operation

Inundu interfaces to a base station via a telemetry link for in flight control. The pod also has a Global Positioning System (GPS) and Inertial Measurement Unit (IMU) on-board for scripted, way point programming of modes and techniques.

The payload is temperature controlled and isolated from shock and vibration, with a platform independent power supply. The simulator is based on high resolution Digital Radio Frequency Memory (DRFM), Radar Signal Processing (RSP), data capturing and RF technology developed at CSIR.

## Our track record

Our Electronic Counter Measures (ECM) simulators, Digital Radio Frequency Memory (DRFM) kernels and radar signal processors are recognised as world class and utilised by several R&D, T&E and training institutions internationally.

Combining our long history in modelling and simulation, hardware in the loop capabilities and field test and evaluation facilities in both Radar and EW enables a deep understanding of systems interactions and client requirements.

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